

SPECIFICATION AMENDMENTS:

Please replace the second full paragraph on page 2 of the specification with the following:

In combination with ~~the preamble to claim 1,~~ a method for biotechnologically producing valuable products in which a medium is fed to a bioreactor and subjected to a fermentation process and in which the valuable product is harvested, as filtered permeate and/or as concentrated retentate, by way of a downstream cross-flow filtration unit, and residues are supplied again to the bioreactor until harvesting as retentate, this object is achieved by it being possible to feed other substances, in addition to the medium, to the bioreactor in a controlled manner, by it being possible to harvest the concentrated retentate and the permeate in a controlled manner, and by the fermentation process and the filtration being regulated, in a manner in which they are matched to each other in an integrated system, by way of a control unit.

Please replace the third paragraph on page 6 and continuing to page 7 of the specification with the following:

This object is achieved, ~~in conjunction with the preamble to claim 17,~~ by a device for biotechnologically producing valuable products, essentially comprising a bioreactor having an upstream first feed receptacle for a medium and a downstream cross-flow filtration unit whose permeate line is connected to a first harvest receptacle and whose retentate line leads back into the bioreactor, by at least one second feed receptacle containing an inducing substance being located upstream of the bioreactor, by a second harvest receptacle for a cell-contaminated harvest of the retentate being

connected to the bioreactor by way of a harvest line, and by a control unit being arranged for measuring and regulating the fermentation and filtration process.